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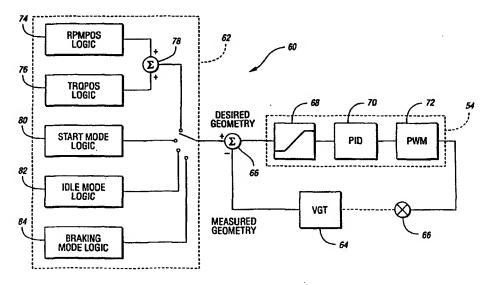
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(54) Title: SYSTEM AND METHOD FOR CONTROLLING A VARIABLE GEOMETRY TURBOCHARGER



(57) Abstract

A system (10) for controlling a vehicle having an internal combustion engine (12), and a variable geometry turbocharger (50) includes a turbocharger sensor having an output indicative of a current turbocharger geometry. Turbocharger geometry is varied by a controllable actuator. Control logic (62) determines a desired turbocharger geometry based on the current engine conditions. Control logic determines an error signal by comparing the current turbocharger geometry to the desired turborcharger geometry. The actuator is controlled based on the error signal to change the current turbocharger geometry so as to track the desired turbocharger geometry.